



# ecology and environment, inc.

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EPA Region 5 Records Ctr.



230195

## MEMORANDUM

DATE: June 20, 1995

TO: William Sass, TAT Project Manager, E & E, Chicago, Illinois

FROM: Emily S. Landis, TAT Geochemist, E & E, Cleveland, Ohio

THROUGH: Anne A. Busher, ATATL, E & E, Cleveland, Ohio  
David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois  
Mary J. Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Bulk Asbestos Data Quality Assurance Review, Wyman-Gordon, Harvey, Cook County, Illinois

REFERENCE: Project TDD T05-9505-023 Analytical TDD T05-9506-801  
Project PAN EIL0890SAA Analytical PAN EIL0890AAA

The data quality assurance (QA) review of six solid samples, collected from Wyman-Gordon, is complete. The samples were collected on June 2, 1995, by the Technical Assistance Team (TAT) contractor, Ecology and Environment, Inc. (E & E). The samples were submitted to Carnow, Conibear, and Associates (CCA), Chicago, Illinois, for polarized light microscopic (PLM) analysis. The laboratory analyses were performed according to the procedures set forth in the United States Environmental Protection Agency (U.S. EPA) Interim Method #EPA-600/M4-82-020 (December 1982) and the National Institute of Occupational Safety and Health (NIOSH) Method 7403. CCA participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis, established by the National Institute of Standards and Technology (NIST).

### Sample Identification

<u>TAT</u> <u>Identification No.</u>	<u>Laboratory</u> <u>Identification No.</u>
S-1	95-BA-01635
S-2	95-BA-01636
S-3	95-BA-01637
S-4 Inner	95-BA-01638
S-4 Outer	95-BA-01639
S-6	95-BA-01640

I. Overall Assessment of Data: Acceptable

This data is evaluated on criteria established in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01, "Quality Assurance/Quality Control Guidance for Removal Activities, (1990)" and the reviewer's professional experience. No guidance specific to PLM analysis of asbestos is provided in OSWER 9360.4-01.

Layered samples were homogenized before PLM analysis. The laboratory report states that QA samples were analyzed in compliance with U.S. EPA and NIOSH methods. Based on the data provided, the results are acceptable for use as reported.

06-07-95

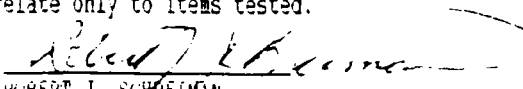
BULK SAMPLE ANALYSIS  
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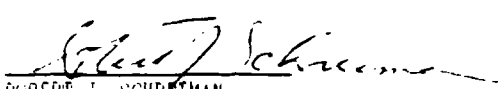
Laboratory and Sample Number Date Analyzed	Note	Asbestos Detected	Type Asbestos Detected	Estimated Percent	Friable	Color	Homogeneous Number of Layers	Other Fibers Present	Estimated Percent	Binders & Fillers
95-BA-01635 S-1-06/02/95-001 RJS-06/07/95		Y	Chrysotile	30-40	Y	TAN	Y 1			60-70
PLM ASBESTOS SAMPLE BLDG C										
95-BA-01636 S-2-06/02/95-002 RJS-06/07/95		Y	Chrysotile	70-80	Y	GRAY/WHITE	Y 5			20-30
PLM ASBESTOS SAMPLE BLDG D										
95-BA-01637 3-06/02/95-003 RJS-06/07/95		Y	Chrysotile	30-40	Y	TAN/GRAY	Y 1			60-70
PLM ASBESTOS SAMPLE DRIVEWAY BETWEEN G AND E										
95-BA-01638 S4I-06/02/95-004 RJS-06/07/95		Y	Chrysotile	30-40	Y	TAN/GRAY	Y 1			60-70
PLM ASBESTOS SAMPLE BLDG E										
95-BA-01639 S40-06/02/95-005 RJS-06/07/95		Y	Chrysotile	70-80	Y	WHITE/GRAY	Y 1			20-30
PLM ASBESTOS SAMPLE BLDG E										
95-BA-01640 6-06/02/95-006 JS-06/07/95		Y	Crocidolite	20-30	Y	WHITE	Y 1	Fibrous Glass	1-5	70-80
PLM ASBESTOS SAMPLE BETWEEN FF AND HH (OUTSIDE)										



CARNOW, CONIBEAR & ASSOCIATES, LTD.

Note : Percentages given are estimates only. No liability is incurred on the part of CCA. (INV LAP # 1039,  
contact R. J. Schreiman.) Samples will be retained for 90 days and then discarded unless otherwise directed in writing.  
Test results relate only to items tested.

  
ROBERT J. SCHREIMAN  
Analyst

  
ROBERT J. SCHREIMAN  
Laboratory Director



CARNOW, CONIBEAR & ASSOCIATES, LTD.